PTO/SB/08A

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known	
Application Number	10/824,743
Filing Date	April 15, 2004
First named Inventor	David Edwin Thurston
Group Art Unit	1626
Examiner name	Coppins, Janet L.
Attorney Docket Number	065435-9035-US00

U.S. Patent Documents

Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
JC		6,660,856	Wang	12/9/2003

FOREIGN PATENT DOCUMENTS

Examiner Initials		Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
JC		EP	1193270	Spirogen Ltd.	4/3/2002		
JC		GB	2053894	The Green Cross Corporation	2/11/1981		
JC		WO	88/04659	The Upjohn Company	6/30/1988		
JC		WO	91/16324	The Upjohn Company	10/31/1991		
JC		WO	96/23497	Synphar Laboratories, Inc.	8/8/1996		
JC		WO	97/07097	Auckland Division Cancer Society of New Zealand Inc.	2/27/1997		
JC		WO	98/11101	Auckland Division Cancer Society of New Zealand Inc.	3/19/1998		
JC		WO	98/12197	Kyorin Pharmaceuticals Co., Ltd. et al.	3/26/1998	N	Y
JC		WO	99/29642	The Scripps Research Institute	6/17/1999		
JC		WO	99/46244	Novo Nordisk A/S et al.	9/16/1999		

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer. Patent and Trademark Office, Washington, DC 0231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box Alexandria, VA 22313-1450.

Substitute for form 1449/PTO	Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application Number	10/824,743
	Filing Date	April 15, 2004
	First named Inventor	David Edwin Thurston
	Group Art Unit	1626
(use as many sheets as necessary)	Examiner name	Coppins, Janet L.
Sheet 2of 2	Attorney Docket Number	065435-9035-US00

U.S. Patent Documents

FOREIGN PATENT DOCUMENTS

Examiner Initials		Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
JC		WO	00/12508	The University of Portsmouth Higher Education Corp.	3/9/2000		
JC		WO	00/12509	The University of Portsmouth Higher Education Corp.	3/9/2000		
JC		WO	00/64864	Cancer Campaign Research Technology Ltd.	11/2/2000		
JC		WO	2004/043963	Spirogen Ltd.	5/27/2004		
JC		WO	2005/023814	Spirogen Ltd.	3/17/2005		
JC		WO	2005/040170	Government of the U.S.A. et al.	5/6/2005		
JC		WO	2005/085251	Spirogen Ltd.	9/15/2005		

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer. Patent and Trademark Office, Washington, DC 0231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box Alexandria, VA 22313-1450.

PTO/SB/08B
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless it contains a valid OMB number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 5

	Complete if Known
Application Number	10/824,743
Filing Date	April 15, 2004
First Named Inventor	David Edwin Thurston
Group Art Unit	1626
Examiner Name	Coppins, Janet L.
Attorney Docket Number	065435-9035-US00

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
JC		ADAMS et al., "Molecular modelling of a sequence-specific DNA-binding agent based on the pyrrolo[2,1-c][1,4]benzodiazepines," Pharm. Pharmacol. Commun. (1999) 5:555-560
JC		BARALDI, P.G. et al., "[2,1-c][1,4]benzodiazepine (PBD)-distamycin hybrid inhibits DNA binding to transcription factor Sp1," Nucleotides and Nucleic Acids (2000) 19(8):1219-1229
JC		BERGE et al., "Pharmaceutical Salts," J. Pharm. Sci. (1977) 66:1-19
JC		BORGATTI, M. et al., "Inhibition of NF-kB/DNA interactions and HIV-1 LTR directed transcription by hybrid molecules containing pyrrolo [2,1-c][1,4] benzodiazepine (PBD) and oligopyrrole carriers," Drug Development Research (2003) 60(3):173-185
JC		BOSE, D.S. et al., "Effect of linker length on DNA-binding affinity, cross-linking efficiency and cytotoxicity of C8 linked pyrrolobenzodiazepine dimers," J. Chem. Soc. Chem. Commun. (1992) 20:1518-1520
JC		CHEN, Z. et al., "A novel approach to the synthesis of cytotoxic C2-C3 unsaturated pyrrolo[2,1-c][1,4]benzodiazepines (PBDs) with conjugated acrylyl C2-substituents," Biorg. Med. Chem. Lett. (2004) 14:1547-1549
JC		COOPER, N. et al., "Synthesis of novel PBDs as anti-tumour agents," Chem. Commun. (2002) 16:1764-1765
JC		DE GROOT, FMH et al., "Synthesis and biological evaluation of 2'-carbamate-linked 2'-carbonate-linked prodrugs of paclitaxel: selective activation by the tumor-associated protease plasmin," J. Med. Chem. (2000) 43(16):3093-3102
JC		DE GROOT, FMH et al., "Novel 20-carbonate linked prodrugs of camptothecin and 9-aminocamptothecin designed for activation by tumour-associated plasmin," Biorg. Med. Chem. Lett. (2002) 12(17):2371-2376

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 5

Complete if Known	
Application Number	10/824,743
Filing Date	April 15, 2004
First Named Inventor	David Edwin Thurston
Group Art Unit	1626
Examiner Name	Coppins, Janet L.
Attorney Docket Number	065435-9035-US00

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
JC		DUBOWCHIK, G.M. et al., "Cathepsin B-sensitive dipeptide prodrugs. 1. A model study of structural requirements for efficient release of doxorubicin," Biorg. Med. Chem. Lett. (1998) 8:3341-3346
JC		DUBOWCHIK, G.M. et al., "Cathepsin B-sensitive dipeptide prodrugs. 2. Models of anticancer drugs paclitaxel (Taxol), Mitomycin C and Doxorubicin," Biorg. Med. Chem. Lett. (1998) 8:3347-3352
JC		DUBOWCHIK and WALKER, "Receptor-mediated and enzyme-dependent targeting of cytotoxic anticancer drugs," Pharmacology and Therapeutics (1999) 83:67-123
JC		GARSKY et al., "The synthesis of a prodrug of doxorubicin designed to provide reduced systemic toxicity and greater target efficacy," J. Med. Chem. (2001) 44:4216-4224
JC		GREGSON, S.J. et al., "Effect of C2/C3-endo unsaturation on the cytotoxicity and DNA-binding reactivity of pyrrolo-[2,1-c][1,4]-benzodiazepines," Bioorg. Med. Chem. Lett. (2000) 10(16):1849-1851
JC		GREGSON, S.J. et al., "Linker length modulates DNA cross-linking reactivity and cytotoxic potency of C8/C8' ether-linked C2-exo-unsaturated pyrrolo[2,1-c][1,4]benzodiazepine (PBD) dimers," J. Med. Chem. (2004) 1161-1174
JC		GREGSON, S.J. et al., "Synthesis of the first example of a C2-C3/C2'-C3'-endo unsaturated pyrrolo[2,1-c][1,4]benzodiazepine dimer," Biorg. Med. Chem. Lett. (2001) 11:2859-2862
JC		GREGSON, S.J. et al., "Synthesis of the first examples of A-C8/C-C2 amide-linked pyrrolo[2,1-c][1,4]benzodiazepine dimers," Biorg. Med. Chem. Lett. (2003) 13:2277-2280
JC		HAMBURGER, A.W. et al., "Primary bioassay of human tumor stem cells," Science (1977) 197:461-643

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449B/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/824,743
				Filing Date	April 15, 2004
				First Named Inventor	David Edwin Thurston
				Group Art Unit	1626
(use as many sheets as necessary)				Examiner Name	Coppins, Janet L.
Sheet	3	of	5	Attorney Docket Number	065435-9035-US00

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
JC		JAKOBSEN et al., "Design, synthesis, and pharmacological evaluation of thapsigargin analogues for targeting apoptosis to prostatic cancer cells," J. Med. Chem. (2001) 44:4696-4703
JC		KAMAL et al., "Synthesis and DNA-binding affinity of A-C8/C-C2 alkoxyamido-linked pyrrolo[2,1-c][1,4]benzodiazepine dimers" Biorg. Med. Chem. Lett. (2003) 13(22):3955-3958
JC		KAMAL, et al., "Synthesis of pyrrolo[2,1-c][1,4]benzodiazepines via reductive cyclization of w-azido carbonyl compounds by TMSI: an efficient preparation of antibiotic DC-81 and its dimers," Biorg. Med. Chem. Lett. (2000) 10:2311-2313
JC		KANEKO, T. et al., "Bicyclic and tricyclic analogues of anthramycin," J. Med. Chem. (1985) 28:388-392
JC		KANG, G.-D. et al., "Synthesis of a novel C2-aryl substituted 1,2-unsaturated pyrrolobenzodiazepine," Chem. Commun. (2003) 1688-1689
JC		KUMAR, R. et al., "Synthesis and antitumor cytotoxicity evaluation of novel pyrrolo[2,1-c][1,4]benzodiazepine imidazole containing polyamide conjugates," Oncology Research (2003) 13(4):221-223
JC		KUMAR, R. et al., "Design and synthesis of novel pyrrolo[2,1-c][1,4]benzodiazepine - imidazole containing polyamide conjugates," Heterocyclic Communications (2002) 81(1):19-26
JC		KUMAR, R. et al., "Design, synthesis and in vitro cytotoxicity studies of novel pyrrolo [2,1][1,4]benzodiazepine-glycosylated pyrrole and imidazole polyamide conjugates," Org. Biomol. Chem. (2003) 1(19):3327-3342
JC		LANGLOIS, N. et al., "Synthesis and cytotoxicity on sensitive and doxorubicin-resistant cell lines of new pyrrolo[2,1-c][1,4]benzodiazepines related to anthramycin," J. Med. Chem. (2001) 44:3754-3757

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449B/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/824,743
				Filing Date	April 15, 2004
				First Named Inventor	David Edwin Thurston
				Group Art Unit	1626
(use as many sheets as necessary)				Examiner Name	Coppins, Janet L.
Sheet	4	of	5	Attorney Docket Number	065435-9035-US00

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
JC		LIPSHUTZ, B.H. et al., "Pd(II)_Catalyzed Acetal/Ehtal Hydrolysis/Exchange Reactions," Tetrahedron Lett. (1985) 26(6):705-708
JC		MHAKA et al., "A 5-fluorodeoxyuridine prodrug as targeted therapy for prostate cancer," Biorg. Med. Chem. Lett. (2002) 12(17:2459-2461
JC		MISCHIATI, C. et al., "Binding of hybrid molecules containing pyrrolo [2,1-c][1,4]benzodiazepine (PBD) and oligopyrrole carriers to the human immunodeficiency type 1 virus TAR-RNA," Biochem. Pharmacol. (2004) 67(3):401-410
JC		MORI, M. et al., "Total syntheses of prothracarcin and tomaymycin by use of palladium catalyzed carbonylation," Tetrahedron (1986) 42(14):3793-3806
JC		MOUNTZOURIS, J.A. et al., "Comparison of a DSB-120 DNA interstrand cross-linked adduct with the corresponding bis-Tomamycin adduct," J. Med. Chem. (1994) 37:3132-3140
JC		NICULESCU-DUVAZ, D. et al., "Self-immolative nitrogen mustard prodrugs for suicide gene therapy," J. Med. Chem. (1998) 41(26):5297-5309
JC		REDDY et al., "Design, synthesis and in vitro cytotoxicity studies of novel pyrrolo[2,1-c][1,4]benzodiazepine (PBD)-polyamide conjugates and 2,2'-PBD dimers," Anti-Cancer Drug Design (2000) 15(3):225-228
JC		SMELLIE, M. et al., "Cellular pharmacology of novel C8-linked anthramycin-based sequence-selective DNA minor groove cross-linking agents," Br. J. Cancer (1994) 70:48-53
JC		SMELLIE, M. et al., "Sequence selective recognition of duplex DNA through covalent interstrand cross-linking," Biochem. (2003) 42:8232-8239

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PTO/SB/08B

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB number.

Substitute for form 1449B/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/824,743
				Filing Date	April 15, 2004
				First Named Inventor	David Edwin Thurston
				Group Art Unit	1626
(use as many sheets as necessary)				Examiner Name	Coppins, Janet L.
Sheet	5	of	5	Attorney Docket Number	065435-9035-US00

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
JC		THURSTON, D.E., "Nucleic acid targeting: therapeutic strategies for the 21st century," Brit. J. Cancer (1999) 80(1):65-85
JC		TIBERGHIEN, A.C. et al., "Application of the stille coupling reaction to the synthesis of C2-substituted endo-exo unsaturated pyrrolo[2,1-c][1,4]benzodiazepines (PBDs)," Biorg. Med. Chem. Lett. (2004) 14:5041-5044
JC		WELLS, G. et al., "Pyrrolobenzodiazepine-polyamide libraries: synthesis and DNA binding selectivity," Proc. Am. Assoc. Canc. Res. (2003) 44:85-86, #452
JC		WERMUTH et al., "Molecular Variations Based on Isosteric Replacements," The Practice of Medicinal Chemistry, Chapter 13 (1996) 203-237
JC		WILLIAMS, M.A. et al., "Synthesis of conformationally constrained DTPA analogues. Incorporation of the ethylenediamine units as aminopyrrolidines," J. Org. Chem. (1994) 59(13):3616-3625

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08A
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	2

Complete if Known	
Application Number	10/824,743
Filing Date	April 15, 2004
First Named Inventor	David Edwin Thurston
Group Art Unit	1626
Examiner Name	Coppins, Janet L.
Attorney Docket Number	065435-9035

U.S. PATENT DOCUMENTS

Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
JC		3,523,941	Leimgruber et al.	8/11/1970
JC		3,524,849	Batcho et al.	8/18/1970
JC		4,185,016	Takanabe et al.	1/22/1980
JC		4,239,683	Takanabe et al.	12/16/1980
JC		4,309,437	Ueda et al.	1/5/1982
JC		5,143,854	Pirrung et al.	9/1/1992
JC		5,545,568	Ellman et al.	8/13/1996
JC		6,747,144	Thurston et al.	6/8/2004
JC		6,562,806	Thurston et al.	5/13/2003
JC		6,608,192	Thurston et al.	8/19/2003
JC		2003-0120069	Thurston et al.	6/26/2003
JC		2003-0195196	Thurston et al.	10/16/2003
JC		2004-0092736	Thurston et al.	5/13/2004

FOREIGN PATENT DOCUMENTS

Examiner Initials		Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
JC		WO	88/07378	Cancer Research Campaign Technology Ltd.	10/6/1988		
JC		WO	89/10140	Cancer Research Campaign Technology Ltd.	11/2/1989		
JC		WO	92/19620 D	Centre National de la Recherche Scientifique	11/12/1992		

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer. Patent and Trademark Office, Washington, DC 0231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box Alexandria, VA 22313-1450.

PTO/SB/08A

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 2

Complete if Known	
Application Number	10/824,743
Filing Date	April 15, 2004
First Named Inventor	David Edwin Thurston
Group Art Unit	1626
Examiner Name	Coppins, Janet L.
Attorney Docket Number	065435-9035

U.S. PATENT DOCUMENTS

Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document

FOREIGN PATENT DOCUMENTS

Examiner Initials		Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
JC		WO	93/08288	Cancer Research Campaign Technology Ltd.	4/29/1993		
JC		WO	93/18045	Cancer Research Campaign Technology Ltd.	9/16/1993		
JC		WO	97/01560 D	Pharmacopeia, Inc.	1/16/1997		
JC		WO	00/12506	The University of Portsmouth Higher Education Corp.	3/9/2000		
JC		WO	00/12507	The University of Portsmouth Higher Education Corp.	3/9/2000		
JC		EP	0239400A2	Winter, G.P.	9/30/1987		
JC		FR	2027356	Fujisawa Pharmaceutical Co. Ltd.	12/29/1969		
JC		FR	2586683 D	Centre National de la Recherche Scientifique	3/6/1987		
JC		GB	1299198 D	Fujisawa Pharmaceutical Co. Ltd.	12/6/1972		
JC		JP	53-82792	Microbiological Chemical Research	7/21/1978		
JC		JP	57131791	Fujisawa Pharmaceutical Co. Ltd.	8/14/1982		
JC		JP	58180487	Kyowa Hakko Kogyo Co. Ltd.	10/21/1983	X	

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer. Patent and Trademark Office, Washington, DC 0231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box Alexandria, VA 22313-1450.

PTO/SB/08B
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	14

Complete if Known	
Application Number	10/824,743
Filing Date	April 15, 2004
First Named Inventor	David Edwin Thurston
Group Art Unit	1626
Examiner Name	Coppins, Janet L.
Attorney Docket Number	065435-9035

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
JC		ALBERICIO, F. et al., "NPE-Resin, A New Approach to the Solid-Phase Synthesis of Protected Peptides and Oligonucleotides II. Synthesis of Protected Peptides[1,2]," *Tetrahedron Letters*, 32:1515-1518 (1991)
JC		ALBERICIO, F. et al., "NPE-resin, a new approach to the solid-phase synthesis of protected peptides and oligonucleotides," *Peptides* 1990, Proc. 21.sub.st Eur. Pept. Symp., 134-136 (1990)
JC		ALTHIUS, T. H. and HESS, H. J., "Synthesis and Identification of the Major Metabolites of Prazosin Formed in Dog and Rat," *J. Medicinal Chem.*, 20(1), 146-148 (1977)
JC		ARIMA et al., "Studies on Tomaymycin, a New Antibiotic. I. Isolation and Properties of Tomaymycin," *J. Antibiotics*, 25, 437-444 (1972)
JC		ARISTOFF, J and JOHNSON, P., "Synthesis of CBI-PDE-I-Dimer, the Benzannelated Analogue of CC-1065," *J. Org. Chem.*, 57, 6234-6239 (1992)
JC		BAGSHAWE et al., "Antibody-Enzyme Conjugates Can Generate Cytotoxic Drugs from Inactive Precursors at Tumor Sites," *Antibody, Immunoconjugates, and Radiopharmaceuticals*, 4, 915-922 (1991)
JC		BARALDI, P.G. et al., "Design, synthesis and biological activity of a pyrrolo[2,1-c][1,4]benzodiazepine (PBD)-distamycin hybrid," *Bioorganic & Medicinal Chemistry Letters*, vol. 8, No. 21, 3019-3024 (1998)
JC		BARALDI, P.G. et al., "Synthesis, in Vitro Antiproliferative Activity, and DNA-Binding Properties of Hybrid Molecules Containing Pyrrolo[2,1-c][1,4]benzodiazepine and Minor-Groove-Binding Oligopyrrole Carriers," *J. Med. Chem.*, 42, 5131-5141 (1999)
JC		BAYLEY, H. et al., "Photoactivatable drugs," *TIPS*, 8, 138-143 (1987)

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB number.

Substitute for form 1449B/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/824,743
				Filing Date	April 15, 2004
				First Named Inventor	David Edwin Thurston
				Group Art Unit	1626
(use as many sheets as necessary)				Examiner Name	Coppins, Janet L.
Sheet	2	of	14	Attorney Docket Number	065435-9035

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
JC		BERRY, J. M. et al., "Solid-phase synthesis of DNA-interactive pyrrolo[2,1-c][1,4]benzodiazepines," *Tetrahedron Letters*, 41, 6171-6174 (2000)
JC		BI, Y. et al., "Building blocks for peptide and carbamate libraries", *Bioorganic & Medicinal Chemistry Letters*, vol. 6, No. 19, 2299-2300 (1996)
JC		BI, Y., et al., "Building blocks for peptide and carbamate libraries," *Chemical Abstracts*, vol. 125, No. 23, 1013 (1996)
JC		BOGER et al., "CC-1065 and the Duocarmycins: Synthetic Studies," *Chem. Rev.*, 97, 787-828 (1997)
JC		BOSE et al., "New Approaches to Pyrrolo[2,1-c][1,4]benzodiazepines: Synthesis, DNA-binding and cytotoxicity of DC-81," *Tetrahedron*, 48, 751-758 (1992)
JC		BOSE, D.S. et al., "Rational Design of a Highly Efficient Irreversible DNA Interstrand Cross-Linking Agent Based on the Pyrrolobenzodiazepine Ring System," *J. Am. Chem. Soc.*, 114, 4939-4941 (1992)
JC		BRIDGES, R.J. et al., "Conformationally Defined Neurotransmitter Analogues. Selective Inhibition of Glutamate Uptake by One Pyrrolidine-2,4-dicarboxylate Diastereomer," *J. Med. Chem.*, 34, 717-725 (1991)
JC		BROWN, S.C. et al., "NMR Solution Structure of a Peptide Nucleic Acid Complexed with RNA," *Science*, 265, 777-780 (1994)
JC		BUNDGAARD, H., "Design and Application of Prodrugs," *A Textbook of Drug Design and Development*, eds Krogsgaard-Lassen, P., and Bundgaard, H., Harwood Academic Press, 113-135 (1991)

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 3 of 14

Complete if Known	
Application Number	10/824,743
Filing Date	April 15, 2004
First Named Inventor	David Edwin Thurston
Group Art Unit	1626
Examiner Name	Coppins, Janet L.
Attorney Docket Number	065435-9035

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
JC		BURGESS, K. et al., "Solid Phase Synthesis of Oligoureas", *J.Ame. Chem. Soc.*, 119: 1556-1564 (1997)
JC		BURGESS, K et al., "Solid Phase Synthesis of Unnatural Biopolymers Containing Repeating Urea Units," *Agnew Chem. Int. Ed. Engl*, 34, No. 8:907-909 (1995)
JC		CARRUTH, J.A.S., "Clinical applications for photodynamic therapy," *J. Photochem Photobiol.*, 9, 396-397 (1991)
JC		CHO, C Y et al., "An Unnatural Biopolymer", *Science*, 261: 1303-1305 (1993)
JC		COURTNEY, S. M. et al., "A new convenient procedure for the synthesis of pyrrolo[2,1-c][1,4]benzodiazepines", *Tetrahedron Letters*, vol. 34, No. 33, 5327-28 (1993)
JC		CULVER et al., "In Vivo Gene Transfer with Retroviral Vector-Producer Cells for Treatment of Experimental Brain Tumors," *Science*, 256, 1550-1552 (1992)
JC		DALTON, S. and TREISMAN, R, "Characterization of SAP-1, a Protein Recruited by Serum Response Factor to the c-*fos* Serum Response Element," *Cell*, 68, 597-612 (1992)
JC		DAMAYANTHI, Y., et al., "Design and synthesis of novel pyrrolo{2,1-*c*][1,4] benzodiazepine-Lexitropsin Conjugates," *J. Org. Chem.*, 64, 290-292 (1999)
JC		DANGLES, O. et al., "Selective Cleavage of the Allyl and Allyloxycarbonyl Groups through Palladium-Catalyzed Hydrostannolysis with Tributyltin Hydride. Application to the Selective Protection-Deprotection of Amino Acid Derivatives and in Peptide Synthesis," *J. Org. Chem.*, 52, 4984-4993 (1987)

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PTO/SB/08B

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB number.

Substitute for form 1449B/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/824,743
				Filing Date	April 15, 2004
				First Named Inventor	David Edwin Thurston
				Group Art Unit	1626
(use as many sheets as necessary)				Examiner Name	Coppins, Janet L.
Sheet	4	of	14	Attorney Docket Number	065435-9035

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
JC		DRESSMAN, B.A., et al., "Solid Phase Synthesis of Hydantoins Using a Carbamate Linker and a Novel Cyclization/Cleavage Step," *Tetrahedron Letters*, 37, 937-940 (1996)
JC		DROST, K.J. and CAVA, M.P., "A Photochemically Based Synthesis of the Benzannelated Analogue of the CC-1065 A Unit," *J. Org. Chem.*, 56:2240-2244 (1991)
JC		EASHOO, M. et al., "Fibers from a Low Dielectric Constant Fluorinated Polyimide: Solution Spinning and Morphology Control," *J. Polymer Science*, 35:173-185 (1997)
JC		EDMAN, P. and BEGG, G., "A Protein Sequenator," *Eur. J. Biochem.*, 1, 80-91 (1967)
JC		EGHOLM, M et al., "Peptide Nucleic Acids (PNA). Oligonucleotide Analogues with an Achiral Peptide Backbone," *J. Am. Chem. Soc.*, 114, 1895-1897 (1992)
JC		EGHOLM, M et al., "PNA hybridizes to complementary oligonucleotides obeying the Watson-Crick hydrogen-bonding rules," *Nature*, 365, 566-568 (1993)
JC		ENGLEHARDT et al., "Direct gene transfer of human CFTR into human bronchial epithelia of xenografts with E1-deleted adenoviruses," *Nature Genetics*, 4, 27-34 (1993)
JC		FARMER, J.D. et al., "DNA binding properties of a new class of linked anthramycin analogs,", *Chemical Abstracts*, Abstract No. 239940r, vol. 114, No. 25, 25 899-903 (1991)
JC		FIGLIOZZI, G.M. et al., "Synthesis of N-substituted Glycine Peptoid Libraries," *Methods in Enzymology*, 267: 437-447 (1996)

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Substitute for form 1449B/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/824,743
				Filing Date	April 15, 2004
				First Named Inventor	David Edwin Thurston
				Group Art Unit	1626
(use as many sheets as necessary)				Examiner Name	Coppins, Janet L.
Sheet	5	of	14	Attorney Docket Number	065435-9035

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
JC		FOLOPPE, M.P. et al., "DNA-binding properties of pyrrolo[2,1-c][1,4]benzodiazephine N10-C11 amidines," *Eur. J. Med. Chem.*, 31, 407-410 (1996)
JC		FUJISAWA PHARMACEUTICAL CO., LTD., Abstract No. 139983k, " Benzodiazepine derivatives", *Chemical Abstracts*, vol. 99, No. 17, 603 (1983)
JC		FUJISAWA PHARMACEUTICAL CO., LTD., Abstract No. 72145x, "Benzodiazepine derivatives", *Chemical Abstracts*, vol. 98, No. 9, 638 (1983)
JC		FUJISAWA PHARMACEUTICAL CO., LTD., "Benzodiazepine derivatives," *SciFinder Scholar*, 2-3 (2002)
JC		FUKUYAMA, T. et al., "Total Synthesis of (+)-Porothramycin B," *Tetrahedron Letters*, vol. 34, 16, 2577-2580 (1993)
JC		FURKA, A. et al., "General method for rapid synthesis of multicomponent peptide mixtures," *Int. J. Peptide Protein Res.*, 37, 487-493 (1991)
JC		GARCIA-ECHEVERRIA, C., "A Base Labile Handle for Solid Phase Organic Chemistry", *Tetrahedron Letters*, 38,52, 8933-8934 (1997)
JC		GRANT, R. et al., *Grant and Hackh's Chemical Dictionary*, McGraw-Hill Book Company, 282 (1987)
JC		GREENE, T.W. and WUTS, P.G.M., *Protective Groups in Organic Synthesis*, John Wiley & Sons, 2nd ed., Ch 7, 315-345 (1991)

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB number.

Substitute for form 1449B/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/824,743
				Filing Date	April 15, 2004
				First Named Inventor	David Edwin Thurston
				Group Art Unit	1626
(use as many sheets as necessary)				Examiner Name	Coppins, Janet L.
Sheet	6	of	14	Attorney Docket Number	065435-9035

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
JC		GREGSON, S. et al., "Synthesis of a novel C2/C2'-exo unsaturated pyrrolobenzodiazepine cross-linking agent with remarkable DNA binding affinity and cytotoxicity," *Chemical Communications*, 797-798 (1999)
JC		GREGSON, S.J. et al., "Design, Synthesis and Evaluation of a Novel Pyrrolobenzodiazepine DNA-Interactive Agent with Highly Efficient Cross-Linking Ability and Potent Cytotoxicity", *J. Med. Chem.*, 44: 737-748 (2001)
JC		GREGSON, S.J. et al., "Effect of C2-*exo* Unsaturation on the Cytotoxicity and DNA-Binding Reactivity of Pyrrolo[2,1-*c*]1,4]benzodiazepines", *Bioorganic & Medicinal Chemistry Letters*, 10: 1845-1847 (2000)
JC		GUIOTTO, A. et al., "Synthesis of novel C7-aryl substituted pyrrolo[2,1-c][1,4]benzodiazepines (PBDs) via Pro-N10-troc protection and suzuki coupling," *Bioorganic & Medicinal Chemistry Letters*, 8, No. 21, 3017-3018 (1998)
JC		HARA et al., "DC 102, a new glycosidic pyrrolo(1,4)benzodiazepine antibiotic produced by *streptomyces* sp.", *J. Antibiotics*, 41, 702-704 (1988)
JC		HAUSKE, J. R. and DORFF, P., "Solid Phase CBZ Chloride Equivalent. A New Matrix Specific Linker", *Tetrahedron Letters*, 36, 10, 1589-1592 (1995)
JC		HOCART et al., "Highly potent cyclic disulfide antagonists of somatostatin," *J. of Medicinal Chem.*, 42:11 (1999)
JC		HOCHLOWSKI, J. et al., "Abbeymycin, a new anthramycin-type antibiotic produced by a streptomycete," *J. Antibiotics*, 40, 145-148 (1987)
JC		HOLMES, C.P. and JONES, D.G., "Reagents for Combinatorial Organic Synthesis: Development of a New O-Nitrobenzyl Photolabile Linker for Solid Phase Synthesis", *J. Org. Chem.*, 60, 2318-2319 (1995)

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Substitute for form 1449B/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/824,743
				Filing Date	April 15, 2004
				First Named Inventor	David Edwin Thurston
				Group Art Unit	1626
(use as many sheets as necessary)				Examiner Name	Coppins, Janet L.
Sheet	7	of	14	Attorney Docket Number	065435-9035

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
JC		HUBER, B. et al., "Retroviral-mediated gene therapy for the treatment of hepatocellular carcinoma: An innovative approach for cancer therapy," *Proc. Natl. Acad. Sci. USA*, 88, 8039-8043 (1991)
JC		HURLEY, L. and NEEDHAM-VANDEVANTER, D., "Covalent Binding of Antitumor Antibiotics in the Minor Groove of DNA. Mechanism of Action of CC-1065 and the Pyrrolo(1,4)benzodiazepines," *Acc. Chem. Res.*, 19, 230-237 (1986)
JC		ITOH et al., "Sibanomicin, a new pyrrolo(1,4)benzodiazepine antitumor antibiotic produced by a *micromonospora* sp." *J. Antibiotics*, 41, 1281-1284 (1988)
JC		JENKINS, T.C. et al., "Structure of a Covalent DNA Minor Groove Adduct with a Pyrrolobenzodiazepine Dimer: Evidence for Sequence-Specific Interstrand Cross-Linking," *J. Med. Chem.*, 37, 4529-4537 (1994)
JC		JUNGHEIM, L.N. and SHEPHERD, T.A., "Design of Antitumor Prodrugs: Substrates for Antibody Targeted Enzymes," *Am. Chem. Soc. Chem. Rev.*, 94, 1553-1566 (1994)
JC		KAMAL, A., et al., "An Efficient Synthesis of Pyrrolo[2,1-c][1,4] Benzodiazepine Antibiotics via Reductive Cyclization," *Bioorg. Med. Chem. Ltrs*, 7, No. 14, 1825-1828 (1997)
JC		KAMAL, A., et al., "Synthesis of Pyrrolo [2,1-c][1,4]-Benzodiazepene Antibiotics: Oxidation of Cyclic Secondary Amine with TPAP", *Tetrahedron*, v. 53, No. 9, 3223-3230 (1997)
JC		KAPOOR, T.M. et al., "Exploring the Specificity Pockets of Two Homologous SH3 Domains Using Structure-Based, Split-Pool Synthesis and Affinity-Based Selection," *J. Am. Chem. Soc.* 120:23-29 (1998)
JC		KATRITZKY et al., *Heterocyclic Chemistry*, John Wiley & Sons, Inc., 247-253 (1960)

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 8 of 14

Complete if Known	
Application Number	10/824,743
Filing Date	April 15, 2004
First Named Inventor	David Edwin Thurston
Group Art Unit	1626
Examiner Name	Coppins, Janet L.
Attorney Docket Number	065435-9035

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
JC		KENNEDY, J.C. and POTTIER, R.H., "Endogenous protoporphyrin IX, a clinical useful photosensitiser for photodynamic therapy," *J. Photochem Photobiol*, 14, 275-292 (1992)
JC		KOHN, K., "Anthramycin," *Antibiotics III*, Springer-Verlag, NY, 3-11 (1975)
JC		KONISHI, M. et al., "Chicamycin, a new antitumor antibiotic II. Structure determination of chicamycins A and B," *J. Antibiotics*, 37, 200-206 (1984)
JC		KUNIMOTO et al., "Mazethramycin, a new member of anthramycin group antibiotics," *J. Antibiotics*, 33, 665-667 (1980)
JC		KUNZ, H. and DOMBO, B., "Solid Phase Synthesis of Peptide and Glycopeptides on Polymeric Supports with Allylic Anchor Groups," *Angew Chem. Int. Ed. Engl*, 5, 711-713 (1988)
JC		KUZMICH, S. et al., "Increased levels of glutathione S-transferase π transcript as a mechanism of resistance to ethacrynic acid," *Journal of Biochemistry*, 281, 219-224 (1992)
JC		LANGLEY, D.R. and THURSTON, D.E., "A versatile and efficient synthesis of carbinolamine-containing pyrrolo[1,4]benzodiazepines via the cyclization of N-92-aminobenzoyl)pyrrolidine-2-carboxaldehyde diethyl thioacetals: total synthesis of prothracarcin," *J. Org. Chem.*, 52, 91-97 (1987)
JC		LEBER, J.D. et al., "A revised structure for sibiromycin," *J. Am. Chem. Soc.*, 110, 2992-2993 (1988)
JC		LEIMGRUBER, W. et al., "Isolation and characterization of anthramycin, a new antitumor antibiotic," *J. Am. Chem. Soc.*, 87, 5791-5793 (1965)

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 9 of 14

Complete if Known	
Application Number	10/824,743
Filing Date	April 15, 2004
First Named Inventor	David Edwin Thurston
Group Art Unit	1626
Examiner Name	Coppins, Janet L.
Attorney Docket Number	065435-9035

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
JC		LEIMGRUBER, W. et al., "The structure of anthramycin," *J. Am. Chem. Soc.*, 87, 5793-5795 (1965)
JC		LEIMGRUBER, W. et al., "Total synthesis of anthramycin," *J. Am. Chem. Soc.*, 90, 5641-5643 (1968)
JC		LESCRINIER, T. et al., "DNA-Binding Ligands from Peptide Libraries Containing Unnatural Amino Acids," *Chem. Eur. J.*, 4, 3, 425-433 (1998)
JC		LEWIS A.D. et al., "Glutathione and glutathione-dependent enzymes in ovarian adenocarcinoma cell lines derived from a patient before and after the onset of drug resistance: intrinsic differences and cell cycle effects," *Carcinogenesis*, 9, 1283-1287 (1988)
JC		LOWN et al., "Molecular mechanism of binding of pyrrolo(1,4)benzodiazepine antitumour agents to deoxyribonucleic acid – anthramycin and tomaymycin," Biochem. Pharmacol. (1979), 28 (13), 2017-2026; and Abstract No. 51709
JC		MIZUSHIMA, S. and NAGATA, S., "pEF-BOS, a powerful mammalian expression vector," *Nucl. Acids Res.*, 18, 5322 (1990)
JC		MONKS, A. et al., "Feasibility of High-Flux Anticancer Drug Screen Using a Diverse Panel of Cultured Human Tumor Cell Lines," *Journal of National Cancer Institute*, 83, 757-766 (1991)
JC		MORAN, E.J. et al., "Novel Biopolymers for Drug Discovery: Biopolymers", *Peptide Science*, John Wiley and Sons, 37: 213-19 (1995)
JC		MORGAN, R.A. and ANDERSON, W.F., "Human Gene Therapy," *Annu. Rev. Biochem.*, 62, 191-217 (1993)

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 10 of 14

Complete if Known	
Application Number	10/824,743
Filing Date	April 15, 2004
First Named Inventor	David Edwin Thurston
Group Art Unit	1626
Examiner Name	Coppins, Janet L.
Attorney Docket Number	065435-9035

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
JC		MOSMANN, T., "Rapid Colorimetric Assay for Cellular Growth and Survival: Application to Proliferation and Cytotoxicity Assays," *J. Immunological Methods*, 65, 55-63 (1983)
JC		MULLEN, D.G. and BARANY, G., "A New Fluoridolyzable Anchoring Linkage for Orthogonal Solid-Phase Peptide Synthesis: Design, Preparation, and Application of the N-(3 or 4)-[[4-(Hydroxymethyl) phenoxy]-tert-butylphenylsilyl]phenyl Pentanedioic Acid Monoamide (Pbs) Handle", *J. Org. Chem.*, 53, 5240-5248 (1988)
JC		NAGASAKA, T. and KOSEKI, Y, "Stereoselective Synthesis of Tilivalline," *Journal of Organic Chemistry*, vol. 63, No. 20, 6797-6801 (1998)
JC		NAGASAKA, T. et al., "Stereoselective Synthesis of Tilivalline," *Tetrahedron Letters*, 30:14, 1871-1872 (1989)
JC		NICOLAOU, K.C. et al., "Designed Enediynes: A New Class of DNA-Cleaving Molecules with Potent and Selective Anticancer Activity," *Science*, 256, 1172-1178 (1992)
JC		NIELSON, P.E. et al., "Sequence-Selective Recognition of DNA by Strand Displacement with a Thymine-Substituted Polyamide," *Science*, 254, 1497-1500 (1991)
JC		O'NEIL, I.A., et al., "The Synthesis of Functionalized Pyrrolo-[2,1-c][1,4]-Benzodiazepines," *Synlett*, 75-78 (1997)
JC		O'NEIL, Chemical Abstract No. 171573p, "The synthesis of Functionalized Pyrrolo-[2,1-c][1,4]-Benzodiazepines", *Chemical Abstracts*, vol. 126, No. 13, 618 (1997)
JC		O'NEIL, I.A. et al., "DPPE: A Convenient Replacement for Triphenylphosphine in the Staudinger and Mitsunobu Reactions", *Tetrahedron Letters*, vol. 39, No. 42, 7787-7790 (1998)

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB number.

Substitute for form 1449B/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/824,743
				Filing Date	April 15, 2004
				First Named Inventor	David Edwin Thurston
				Group Art Unit	1626
(use as many sheets as necessary)				Examiner Name	Coppins, Janet L.
Sheet	11	of	14	Attorney Docket Number	065435-9035

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
JC		PAIKOFF, S.J. et al., "The Solid Phase Synthesis of N-Alkylcarbamate Oligomers", *Tetrahedron Letters*, 37, No. 32: 5653-5656 (1996)
JC		PILLAI, V.N.R., "Photoremovable protecting groups in organic chemistry," *Synthesis*, 1-26 (1980)
JC		RAM, Z. et al., "*In Situ* Retroviral-mediated Gene Transfer for the Treatment of Brain Tumors in Rats," *Cancer Research*, 53, 83-88 (1993)
JC		RAWAL, V.H. et al., "Photocyclization Strategy for the Synthesis of Antitumor Agent CC-1065: Synthesis of Dideoxy PDE-I and PDE-II. Synthesis of Thiophene and Furan Analogues of Dideoxy PDE-I and PDE-II," *J. Org. Chem.*, 52, 19-28 (1987)
JC		REGULA, J. et al., "Photosensitisation and photodynamic therapy of oesophagael, duodenal and colorectal tumours using 5-aminoleavulic acid induced photoporphyrin IX-a pilot study," *Gut*, 36, 67-75 (1995)
JC		SAGNOU, M.J. et al., "Design and Synthesis of Novel Pyrrolobenzodiazepine (PDB) Prodrugs for ADEPT and GDEPT," *Bioorganic & Medicinal Chemistry Letters*, 10, 2083-2086 (2000)
JC		SAHA, A.K. et al., "Diisopropylsilyl-Linked Oligonucleotide Analogs: Solid-Phase Synthesis and Physiocochemical Properties," *J. Org. Chem.*, 58, 7827-7831 (1993)
JC		SATYAM, A. et al., "Design, Synthesis, and Evaluation of Latent Alkylating Agents Activated by Glutathione *S*-Transferase," *J. Med. Chem.*, 39, 1736-1747 (1996)
JC		SHIMIZU, K et al., "Prothracarcin, a Novel Antitumor Antibiotic," *J. Antibiotics*, 35, 972-978 (1982)

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Substitute for form 1449B/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/824,743
				Filing Date	April 15, 2004
				First Named Inventor	David Edwin Thurston
				Group Art Unit	1626
(use as many sheets as necessary)				Examiner Name	Coppins, Janet L.
Sheet	12	of	14	Attorney Docket Number	065435-9035

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
JC		SIMON, R.J. et al., "Peptoids: A Modular Approach to Drug Discovery", *Proc. Natl. Acad. Sci.* USA,89:9367-9371 (1992)
JC		SOTH, M.J. and NOWICK, J.S., "Unnatural oligomers and unnatural oligomer libraries", *Curr. Opin. Chem. Biol.*, 1:120-129 (1997)
JC		STAR, W.M., "Light delivery and light dosimetry for photodynamic therapy," *Lasers in Medical Science*, 5:107-113 (1990)
JC		SUGGS, J.W. et al., "Synthesis and structure of anthramycin analogs via hydride reduction of dilactams," *Tetrahedron Letters*, 26, No. 40, 4871-4874 (1985)
JC		TAKEUCHI, T. et al., "Neothramycins A and B, New Antitumor Antibiotics," *J. Antibiotics*, 29, 93-96 (1976)
JC		TEW, K.D. and CLAPPER, M.L., "Glutathione-S-tranferase and anti-cancer drug resistance," *Mechanism of Drug Resistance in Neoplastic Cells*, Woolley, P.V. and Tew, K.D., Eds, Academic Press: Sand Diego, CA 141-159 (1988)
JC		THURSTON, D.E. and THOMPSON, A.S., "The molecular recognition of DNA," *Chem. Brit.*, 26, 767-772 (1990)
JC		THURSTON, D.E. and BOSE, D.S., "Synthesis of DNA-Interactive Pyrrolo[2,1-c][1,4]benzodiazepines," *Chem. Rev.*, 94:433-465 (1994)
JC		THURSTON, D. E., "Advances in the study of Pyrrolo[2,1-c][1,4] benzodiazepine (PBD) Antitumour Antibiotics", *Molecular Aspects of Anticancer Drug-DNA Interaction*, Neidle, S. and Waring, M.J., Eds.; Macmillan Press Ltd, 1:54-88 (1993)

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PTO/SB/08B

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 13 of 14

Complete if Known	
Application Number	10/824,743
Filing Date	April 15, 2004
First Named Inventor	David Edwin Thurston
Group Art Unit	1626
Examiner Name	Coppins, Janet L.
Attorney Docket Number	065435-9035

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
JC		THURSTON, D.E. et al., "Effect of A-ring modifications on the DNA-binding behavior and cytotoxicity of pyrrolo[2,1-c][1,4]benzodiazepines", *Journal of Medicinal Chemistry*, 42:1951-1964 (1999)
JC		THURSTON, D.E. et al., "Synthesis of Sequence-selective C8-linked Pyrrolo [2,1-c][1,4] Benzodiazepine DNA Interstrand Cross-linking Agent," *J. Org. Chem.*, 61:8141-8147 (1996)
JC		THURSTON, D.E. et al., "Synthesis of a novel GC-specific covalent-binding DNA affinity-cleavage agent based on pyrrolobenzodiazepines (PBDs),"Chemical Communications, 563-565 (1996)
JC		TSUNAKAWA, M. et al., "Porothramycin, a new antibiotic of the anthramycin group: Production, isolation, structure and biological activity," *J. Antibiotics*, 41:1366-1373 (1988)
JC		UMEZAWA, H. et al., Chemical Abstract No. 4427a, "Mazethramycins" *Chemical Abstracts*, vol. 90, No. 1, 428 (1979)
JC		UMEZAWA, H. et al., "Mazethramycins," *SciFinder Scholar*, 2-3 (2002)
JC		WILSON, S.C. et al., "Design and Synthesis of a Novel Epoxide-Containing Pyrrolo[2,1-c][1,4]benzodiazepine (PBD) via a New Cyclization Procedure," *Tetrahedron Letters*, 36, No. 35, 6333-6336 (1995)
JC		WILSON, S.C. et al., "Design, Synthesis, and Evaluation of a Novel Sequence-Selective Epoxide-Containing DNA Cross-Linking Agent Based on the Pyrrolo[2,1-c][1,4]benzodiazepine System", *J. Med. Chem.* 42:4028-4041 (1999)
JC		ZUCKERMAN, R.N. et al., "Discovery of Nanomolecular Ligands for 7-Transmembrane G-Protein-Coupled Receptors from a Diverse N-(Substituted) glycine Peptoid Library", *J. Med. Chem.*, 37:2678-2685 (1994)

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB number.

Substitute for form 1449B/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/824,743
				Filing Date	April 15, 2004
				First Named Inventor	David Edwin Thurston
				Group Art Unit	1626
(use as many sheets as necessary)				Examiner Name	Coppins, Janet L.
Sheet	14	of	14	Attorney Docket Number	065435-9035

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
JC		*Dictionary of Science and Technology*, Professor P.M.B. Walker ed. Larousse plc., pp. 63, 457, 523 (1995)

Examiner Signature	/Janet Coppins/	Date Considered	07/23/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.